

TPM&F

THERMOPLASTIC MATERIALS AND FOAMS DIVISION



Communications
Excellence Award



Pinnacle Award

TPM&F SCOPE

The Thermoplastic Materials and Foams Division is organized to provide a focal point for the interchange of information relating to non-vinyl thermoplastic resins including fluoropolymers, polyamides, polyesters, polyolefins, polystyrenes, polyurethanes, their filled and/or reinforced products, and their foamable and foamed products. Its interests lie in stimulating the development of scientific and engineering knowledge. By encouraging participation between producers and consumers, it aims to provide information on new developments which shall encompass synthesis, characterization, fabrication, safe handling, application, serviceability, and marketing.

CHAIRMAN'S MESSAGE

MAY 2015



It is my great pleasure to announce that the Thermoplastics Materials and Foams Division has just received two of the most prestigious awards for the Society of Plastic Engineering: the 2015 SPE Gold Pinnacle Award and the 2015 SPE Communications Excellence Award. I would like to take this opportunity to congratulate all the divisions' members and board for this great achievement. I want to acknowledge the Board Members for their dedication and excellence in serving on the board and all the divisions' members for the continuous support and involvement to the division activities.

I need to take this opportunity to invite you all to our upcoming event of the division: The Annual FOAMS® 2015, 13th International Conference on Foam Materials & Technology on September 8-11, 2015 in Kyoto, Japan. This is the first time that we have our FOAMS® conference located in Asia to reach out to the enormous growing markets and new members in the region. The conference is co-sponsored by the SPE Japan Section, and the Japan Society of Polymer Processing. The conference will feature new topics on polymer foam sustainability, foaming technologies, new materials, new properties, new products and applications.

Finally, as my two years term as a chair of the division is ending this June, it has been an honor to serve as the division chair as we continue our commitment of conveying the mission of the SPE in the education and training in the plastics industry and closing the gap between academics and industries for prosperous collaboration in the field of thermoplastics and foams. We are committed to reach excellence in our service to the board, and to achieve our goals in increasing the depth of our education activities; organizing global TopCon conferences and grow the membership of the division.

Hani Naguib
TPM&F Chairman



The Society of Plastics Engineers
13 Church Hill Road
Newtown, CT 06470 USA

INCOMING CHAIRMAN'S MESSAGE



It is with great pleasure and honor to take over the reins of Chair of the Thermoplastic Material and Foams Division. As my first act, I want to recognize Hani Naguib for the excellent job that he did as Chair of the Division. I can only hope that

the division continues to run as efficiently during the course of the next two years.

Now with an eye to the future, there are two major tasks that a financially healthy division must undertake. The first is to support SPE membership growth particularly in the younger professional ranks. As a society, SPE's membership has been dwindling away over the course of the past ten years, and without an influx of new members, the society of plastic engineers will wither and die with the passage of time. As such, we need to do our part in drawing in and retaining new members. To support this effort, there are a few things that a healthy division can do. First have a membership contest where people that bring in the most new members are financially awarded, especially for younger members. There would have to be a minimum total goal level for this to work. Secondly, provide greater support to scholarships and foundation funding. The first chance to get young people interested and excited in SPE is when they are students. Every attempt should be made to grab professionals as early in the careers as possible. And lastly, ensure that the membership committee of the TPMF hears the voice of younger professionals by purposefully putting younger members on this committee. I'm very open to other suggestions on how to accomplish this, and in the end, it will be the role of the Membership and Awards Chairs to see this through. The second major task is to enhance and redefine our upcoming FOAMS® Conferences as we are seeing conference competition. The next FOAMS® Conference will be in Kyoto Japan, but following that conference, there needs to be a set path for different venue options and also how to grow it. Stephane Costeux will be leading the conference committee to determine the best way of handling this.

In the upcoming weeks, I will be seeking out each board member for their help in accomplishing these two tasks, asking for advice, and in determining a role for each board member. This will be a working committee over the course of the next two years because if we don't make the change, the change will be made for us.

Dr. Dale Grove

ANTEC® 2015 WRAP-UP

There were 5 sessions with 28 papers.

A. Chatterjee, C. Zeng, G. Wilkes, R. Shute, and D. Davis moderated the sessions.

Thermoplastic Materials and Foams Division received two of the most prestigious awards for the Society of Plastic Engineering: the 2015 SPE Gold Pinnacle Award and the 2015 SPE Communications Excellence Award.



Hani Naguib receiving Pinnacle Award from the SPE President at the ANTEC®2015 Conference.

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NEWSLETTER PUBLICATION SPONSORSHIP INFORMATION



Sponsorship size allocations
(1 year, 3 issues):

BC size: \$375

3.500" wide x 2" high

1/4 page size: \$675

3.875" wide x 5" high

1/2 page size: \$1,125

7.750" wide x 5" high

If you are interested in sponsorship
in our newsletter, please contact:

Xiaoxi Wang
wang0213@gmail.com

Newsletter publication plan for the year
2015/2016

**Oct 2015 (FOAMS®2015, BOD meet-
ing, PO2016 promotion etc.)**

**March 2016 (PO2016, BOD meeting,
ANTEC® preview, FOAMS®2014 promo-
tion, etc.)**

**June 2016 (ANTEC®2016, BOD meeting,
FOAMS®2016 promotion, etc.)**

BEST PAPER AWARDS

FOAMS® 2014 (SEPTEMBER 2014)



N.S.RAMESH

*Senior Engineering Fellow, Product Care R&D, Sealed Air Corporation, Grand Prairie, TX

JOHN WOLF**

**Global VP, Product Care, Packaging System, Sealed Air Corporation, Saddle Brook, NJ

For:

Biodegradable PakNatural® Loose Fill Foam from Non-Food Renewable Materials

Abstract

Polymer foam sustainability including the use of bio-based materials is one of the most important areas of research interest. The banning of chlorofluorocarbons (CFCs) along with the strong environmental concern of using the petroleum-based resins has resulted in the development of biodegradable packaging materials for cushioning applications. PakNatural® foam is a biodegradable and compostable packaging product, made from non-food materials, that combines performance and efficiency at a density around 0.5 lb/cubic foot using water as blowing agent. PakNatural® is less brittle than EPS foam and thus offers less dust generation. PakNatural® foam is naturally anti-static so it is a better alternative to Expanded Polystyrene (EPS). A number of international organizations have certified PakNatural® Loose Fill as a biodegradable and compostable material, including Biodegradable Products Institute (BPI) certification under the organization's ASTM D6400 test for compostability, German Certification Organization DIN CERTCO and Belgium-based Vincotte, under the European test EN 13432.

ANTEC® 2015 (MARCH 2015)

PROF. DR.-ING- CHRISTIAN HOPMANN,

DIPL.-WIRT.-ING.

DANIEL SANDER**

Institute of Plastics Processing (IKV) in Industry and the Skilled Crafts at RWTH Aachen University
Pontstrasse 49, 52062 Aachen, Germany



For:

Modelling the rheological behavior of blowing agent loaded melts for simulating the foam injection molding process

Abstract

Currently a new approach for simulating the foam injection molding process is developed at the Institute of Plastics Processing (IKV) Aachen, Germany. As existing simulation software for foam injection molding works with restrictions and assumptions, especially the nucleation phase of the foam injection molding process cannot be described mathematically, the result of emulating the process often does not correspond with practical tests at the injection molding machine.

In the new approach the influence of the blowing agent on the pvt- and rheological behavior is measured with two injection molds directly on the injection molding machine. The characterization of the material behavior is then prepared as input data for injection molding simulation software without changing the calculation models itself.

In this paper the approach for modeling the rheological behavior of blowing agent loaded melts for simulating the foam injection molding process is described. In a first step the effect of a blowing agent on the viscosity of a polymer melt at different melt temperatures and blowing agent concentrations is measured on an injection molding machine with an online rheometer. Afterwards the measured data is used to adjust and optimize the input data of current injection molding simulation software.

Call for Papers FOAMS® 2015

September 10-11, 2015

Kyoto, Japan



The Thermoplastic Materials and Foams Division (TPM&F) of the Society of Plastic Engineers (SPE) is pleased to announce the **13th International Conference on Advances in Foam Materials & Technology (FOAMS® 2015)** at Funai Tetsuro Auditorium, Kyoto University- Katsura Campus, **Kyoto, Japan, September 10-11, 2015**, to address the advances in synthesis, characterization and properties of polymer foams by leading foam researchers in industry and academia. This conference is held every year (every three years outside of USA) and it is the premier forum for sharing ideas and learning about new developments in foaming technologies.

Conference Topics:

- **Polymer Foam Sustainability**
(Bio-based or biodegradable materials, environmentally benign blowing agent)
- **Foaming Processing Technologies**
(Extrusion, steam chest molding, injection molding, blow molding, solid state foaming, novel foaming technology)
- **New Materials, New Properties**
(Blowing agents, Nucleating agents, new advanced foams, nanocellular foams)
- **New Products and Applications**
(Packaging, automotive, aerospace, building /construction, medical, or consumer products)



Please send an abstract (100 word minimum) with a Title, author affiliation, and full contact information to Professor Masahiro Ohshima, Conference Chair, at

foams15@cheme.kyoto-u.ac.jp,

Fax :+81-75-383-2646

Important Dates: April 30, 2015: Abstract Submission

May 30, 2015: Acceptance Notification

June 30, 2015: First version of the paper Submission

July 30, 2015: Final version of the paper Submission

For more information please visit the conference website: <http://www.cheme.kyoto-u.ac.jp/foams15/>



URL: <http://www.cheme.kyoto-u.ac.jp/foams15/>

EXHIBITOR/SPONSORSHIP REGISTRATION FORM

During September 8-11, 2015, the **FOAMS® 2015 conference & tutorial will be held** at Funai Tetsuro Auditorium, Kyoto University Katsura Campus, located at about 7 km West from the Kyoto central station.

The national organization committee kindly solicits the conference exhibitors and sponsors during the conference on **Sept. 10-11, 2015**. The tabletop set up can be conducted in the afternoon of Sept. 9, 2015.

Contact/Attendees: _____

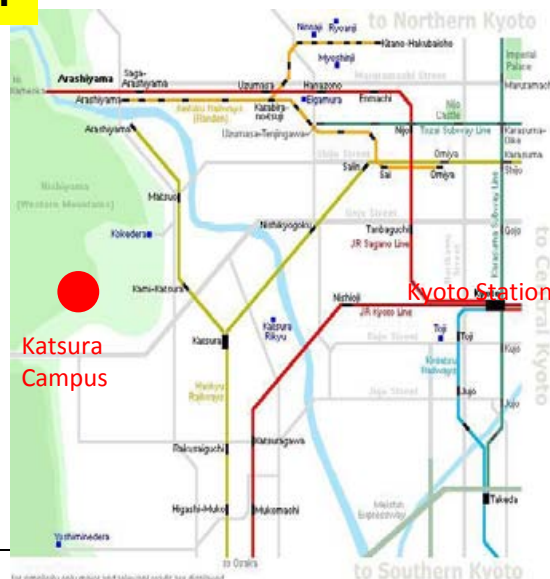
Company: _____

Address: _____

City/State/Zip : _____

Phone #: () _____ Fax# () _____

Email (please print legibly) _____



- We wish to be a **Gold Sponsor** for **\$2,000** (includes a tabletop exhibition, **Two complimentary registration**, reception, announcement of Gold Sponsorship during conference, company logo on poster, company logo on website of the conference, **distribution of literature to attendees at the registration process**, and a 5-minute PowerPoint presentation during the conference*).
- We wish to be a **Coffee Break Sponsor** for **\$1,500** (Includes a tabletop exhibition, **one complimentary registration**, reception, company logo on website of the conference, announcement of sponsorship during coffee break and a 5-minute PowerPoint presentation during the conference*).
- We wish to be a **Exhibitor Sponsor** for **\$1,200** (Includes a tabletop exhibition, **one complimentary registration**, reception, company logo on website of the conference and a 5-minute PowerPoint presentation during the conference*)
- Please charge my Credit Card \$ _____

Card # (Amex/Visa/MC) _____

Exp. date ____/____/____

Authorized Signature _____

Date: ____/____/____

*) Each sponsor will be slotted a 5-minute PowerPoint presentation on the technology their company is exhibiting as part of the new "Sponsors' Commercial Technology Forum" on the 1st day of the conference so that the delegates and sponsors may have meaningful technical discussions during breaks located in the exhibit area.

***) If you wish to have your company logo on the conference website and further advertising, please indicate approval upon sign up.

The Exhibitor / Sponsorship Registrations must be made on/before July 1st, 2015

Questions about Exhibiting/Sponsorship?

(North America & Europe) Email: Theresa Healy, thealy@reedychemicalfoam.com

(Asia and Other countries) Email: Masahiro Ohshima, Kyoto University, m.ohshima@cheme.kyoto-u.ac.jp

Tel: +81-75-383-2666 (oversea), 075-383-2666 (domestic), Fax :+81-75-383-2656 (oversea), 075-383-2656 (domestic)

COUNCILOR'S REPORT



The Spring Council Meeting was held in Orlando, FL on March 21 and 22. Here are some of the highlights from the meeting.

The committee approved formation of new SPE *Additive Manufacturing and 3DPrinting SIG*. This will be chaired by Edwin Tam. They are seeking nomination for Vice Chair.

Monica Verhej informed petition of 8 new student chapters. These were approved by the CCOW.

SPE FOUNDATION will provide support to Sections and Divisions (Groups) with their scholarships offered to students. They can handle all the logistics including full use of SPE services to advertise for available scholarships. Sections and Divisions will have full control on how their scholarships are awarded.

PLASTIVAN program offered to middle and high schoolers have two contract educators. They have made visit to 86 schools in 2014. The program has been successful. They are seeking sponsors for the program and also educators in southeast and west coast.

Scott Owens gave demonstration on **Chain**. He recommends SPE groups to use Chain for their communication. The site can have private access only to the members. There will be Daily Digest that comes on real time the groups can adjust its frequency. You can also reply directly by email or by Chain. SPE can give administration function to the groups and there is no charge.

TPM&F Communication Chair can connect with Sarah Sullinger. She can join our board meeting to give demonstration, setup our community that should help to get feedback from our members.

Len Czuba expressed concern with compressed meeting time that does not allow time to interact with other sections or divisions. He suggested to keep the meetings separate.

Wim DeVos, CEO, mentioned all the groups are in favor of **E-Membership** from the meeting held last year in New Orleans. He noted young people search for free knowledge. They can use Chain but have to register first. Councilor should discuss with their group whether they are in favor of E-membership

ELECTION: new Candidates elected are Scott Owens as President-Elect, and Monica Verhelj as VP.

FINANCIAL UPDATE was given by Raed Al Zubi. He noted positive \$103K vs. budget was negative \$86K. SPE membership is stable. There is 20% increase in advertisement and other revenue came from ANTEC® Dubai and Webinars.

Major expenses were 18% for awards, 30% consultants, and other management expenses.

Contractor running for Journal until 2017. The growth rate is 2%.

INVESTMENT PROJECTS were informed by Wim DeVos. More details can be found in Chain.

New website cost \$130K – all in central location, 5000 papers, searchable.

Advertisement \$90K in first year with estimated ROI is less than 1.5 years

Conference App \$20K. It saves money in printing

Chain cost is \$30K with estimated ROI < 1 year

FUTURE FINANCIAL STREAMS Cost of directory do it ourself – potential for \$400K revenue, expense is only \$120K

Future Projection: membership will go down; this is another reason why we need E membership.

SPE BY-LAWS Added student members in voting rights.

Eligibility for nomination – added Emeritus and student members.

Councilor Definition and Election -- election should be held 45 days prior to April 1.

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COUNCILOR'S REPORT *continued from page 7*

Each councilor elected for a three-year term. Also cannot serve for more than two terms, for have to wait for 3 years.

Membership Definition -- Young Professionals < 35 years of age

Premium membership vs. E-Member covered in Section 4.2.2. No voting rights they cannot hold position in Society. E-members have no affiliation with Section or Division

GUEST SPEAKER MARY BYERS TALKED ABOUT 5 RADICAL CHANGES FOR ASSOCIATION. Challenges with communication when you have members in 80 countries. In 1950 less than 5% two wagers, now it is 80%. Time pressure, no one has time. So how we communicate is important. All other associations having similar challenges like SPE. AMA membership has significant drop. There are now many new associations on field of specialization for doctors.

Lot of consolidation in Associations from home builders to car dealers.

For generation X vs. Baby boomers – what value membership means and provides?

There is also now 'For profit' competition. Think who are your competitors – for profit—from tradeshow, attend and learn what are they doing different and then adopt new technology. Eighty percent of value comes from 20% of your programs. Value vs. volume, do we know what program bring values?

SPE STRATEGIC PLANS, Wim DeVos noted challenges with governance. Time required for decision making is very long. Many associations are changing from non-profit to profit.

Three questions raised by Wim DeVos to the groups.

1) What is the role of governance? 2) How many people do you need for that? 3) What should be the structure?

Groups' feedback will be posted in Chain.

OLD BUSINESS/NEW BUSINESS Remote participation cost runs very high (\$5000) and there was only one person calling in for the meeting during Orlando meeting. Please give your feedback on remote participation.

FALL MEETING WILL BE HELD IN PITTSBURGH IN PA, OCT. 10 AND 11. Blow Molding Conference will be held at the same location.

Perry Vadhar
TPM&F Division Councilor



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THERMOPLASTIC MATERIALS AND FOAMS DIVISION BOARD MEETING MINUTES

Meeting Date: March 22, 2015

Location: ANTEC® Conference 2015, Orlando, FL

ATTENDANCE

Attending the BOD meeting in person: Gary Wilkes, Perry Vadhar, Stephane Costeux, Dale Grove, Anson Wong, Aron Guan, Chad Zeng, Surrnedar Raja, Ashu Sharma, Ray Shute, Hani Naguib, Gary Wilkes, and Andy Chatterjee. **Joined by phone:** Xiaoxi Wang

CHAIR REPORT – Hani Naguib Hani mentioned the next BOD meeting will that Sunday evening of the ANTEC®. Donna, Sal, and Erica will not be able to attend because there is a Hall of Fame dinner that same timeframe. Hani congratulated all involved as our division was awarded the Pinnacle Award-2nd year in a row and the Communication Excellence Award.

Open Positions-Nominations for the open board positions were received and the following positions have been filled:

- Chair: Dale Grove; ○ Chair Elect: Xiaoxi Wang;
- TPC ANTEC® 2016: Chad Zheng

FOAMS®CONFERENCES COMMITTEE: Hani proposed the creation of a committee to examine the future of the FOAMS® Topcon, in particular,

- How to ensure sufficient attendance and positive cash flow after SPE collects overhead, given the “competition” from other foam-themed conferences (AMI in US, BAFP in EU, Polymer Update in China)?
- How to keep serving our primary mission of education?
- Frequency and location of the conference?

Hani appointed Stephane Costeux to chair this committee, which will also include Chul Park, Anson Wong, Chad Zeng and Xiaoxi Wang. He asked that the committee reports findings and recommendation during the BOD meeting in Kyoto.

A discussion ensued where several suggestions were made by Andy, Gary, Perry, Dale and Stephane. These suggestions have been collected in writing and will be considered by the committee. The com-

mittee agreed to have a first meeting on March 24th ahead of the business meeting. BOD members will be consulted in the next few months to provide input and feedback on initial proposals before a final recommendation is made.

SECRETARY’S REPORT – Theresa Healy Minutes from Feb 23, 2015 BOD meeting were approved (Dale and Ashu motioned to approved)

PO 2015 TOPCON REPORT – Andy Chatterjee Excellent attendance in 2015 (over 600 attendees). Andy said the proceeds of the conference going to TPM&F were not yet available for reporting (it comes to 3% per session, and TPM&F had 3 sessions, so 9%).

the conference features a strong tutorial session covering several applications of polyolefins. It was well received and very well attended.

the exhibits was also a success.

Two scholarships were given out (to University of North Texas and Texas A&M), paid from proceeds of the conference.

Andy mentioned that the steering team already had one meeting to plan the 2016 PO Topcon.

ANTEC® 2015 – Dale Grove There will be 5 TPM&F sessions with a total of 28 papers. (there were 35 original papers with 3 being rejected and 4 being transferred). Moderators will be A. Chatterjee, C. Zeng, G. Wilkes, R. Shute, and D. Davis.

Certificates will be handed out to moderators either at the board meeting or before the session. Dale already sent all of the authors the certificate images in advance for any corrections.

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MEETING MINUTES *continued from page 9*

A memory stick and PC will be available. The memory stick contains the three slides SPE wants to show and the two TPMF slides (announcement for business meeting and reception, and advertising for FOAMS® 2015 in Kyoto.

One Potential Issue: without Sunday registration in place, there may be issues with the speakers, moderators, and attendees getting to the first talks on time. This might be a good topic to bring up at council.

FOAMS® 2015 -- Masahiro Ohshima No report at this time

COUNCILOR CHAIR REPORT – Perry Vadhar
Perry attended the 2-day Council meeting. A full report from Perry will follow. A few elements that Perry mentioned regarding

Education efforts: ○ from SPE Foundation to keep providing scholarship ○ Plastivan, which visited 86 schools in 2014.

Communication: The Chain (*social networking within SPE community*) has been launched. Of potential interest for TPM&F in the possibility to set-up separate “communities”, available to our members, or the the BOD, or to the broad SPE audience. This can be used to share information with those who have access.

Financial: 2014 was better than expected, with SPE showing a \$106k surplus (*plan was \$80k deficit*).

The Council had discussion regarding right of students and e-members to vote and be represented on the Council. This initiative aims at increasing our membership.

NEWSLETTER CHAIR REPORT – Xiaoxi Wang
The 1Q2015 newsletter was sent out earlier in March. A special effort was made to have it distributed before ANTEC®.

The next newsletter will be in May 2015.

COMMUNICATION CHAIR REPORT – Theresa Healy: no update from TPO meeting

EDUCATION CHAIR – Stephane Costeux PLASTIVAN: The Plastivan event co-sponsored by the TPM&F BOD and the Pacific Northwest section took place on November 10-14th, 2014 in several schools around Seattle.

Marysville Middle School (Marysville, WA) Bellevue High School (Bellevue, WA) Cedarcrest Middle School (Marysville, WA) Kamiakin Junior High (Kirkland, WA)

Each day the program taught to 5 classes (max. 40 students per class), which means it reached about 700 student over the course of 4 days. The expense for the TPM&F division was \$3,300.

Feedback from the teachers, students and organizers was excellent: student were engaged and showed great interest in the field of plastics and related careers.

Sponsorship: The TPM&F Division renewed its sponsorship for the SAC at ANTEC® 2015 at the Platinum level (\$2500). We will have 8 tickets to the student luncheon at ANTEC® (March 25th) where the sponsoring divisions will be recognized.

TPM&F FOAMS® 2015 Michael Reedy Scholarships: Reedy International and the TPM&F Division will each contribute \$500 towards two travel scholarships for students attending the FOAMS® 2015 conference.

SPE TPM&F Scholarship: The SPE Foundation special scholarship program is administered by Gene Havel. We should receive applications for the 2015 SPE TPM&F Scholarship (one award of \$2,500, from SPE Foundation) by September 2015.

Additional suggestions for student activities are welcome. Last year a suggestion was made to organize a video contest of foams or plastics.

Webinars: We are looking for speakers to talk about various aspects of foams before the FOAMS®2015 conference. Last year, Hani, Miguel and Stéphane gave the webinar. In 2015, target is to have 3 seminars in July/August with other speakers. Stéphane

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mentioned he would asked the presenters of the foams tutorial at the 2015 PO TopCon to give this tutorial as a seminar.

MEMBERSHIP CHAIR REPORT – Ajit Ranade
no update from TPO meeting

TPM&F By-laws – Ray Shute A motion to approve the amended bylaws was approved by all present.

HSM/Fellows Nominations – Donna Davis no update from TPO meeting

Outstanding Achievement Award Chair Report – Vipin Kumar Please send nomination suggestions to Vipin.

FY2015-16 Budget Planning: Max Wingert Update will be given on later date

INTERNATIONAL ACTIVITIES REPORT – Miguel Perez and Lukas Stirnemann: no update

NEW AND OLD BUSINESS

BOD membership: Hani mentioned that in April we will renew a third of the members of the TPM&F board for the 2015-2018 term. Members whose term end this year are: Andy, Theresa, Dale, Miguel, Ramesh, Lukas and Gary.

New people have manifested interest in serving on our BOD: Anson Wong, and Aron Guan.

Committee for FOAMS® conference (see above)

Dale asked whether there was a formal trigger mechanism to decide, at some point during the planning of a conference, whether the conference will be viable (and if not, cancel the conference).

Next Board meeting in September 2015 in Kyoto during the FOAMS® Conference

Adjourn at 9:00 pm.

COMMUNICATION



TPM&F WEBSITE
Our website is now accessible by your mobile device so it can be viewed from your cell phones.

Click the box above to go to our website.

To access any of our previous newsletters [click here](#)



Division Newsletter Archives